INDULSKA, Maria

Attempted evaluation of the erythrocytic system in cotton workers. Pol. tyg. lek. 19 no.49:1878-1881 7 D *64

1. Z III Kliniki Chorob Wewnetrznych Wojskowej Akademii Medycznej w Lodzi (kierownik: prof. dr. A. Himmel).

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000

TRIEFF, Herman; HIMMEL, Andrzej; INDULSKI, Janusz

Diagnostic tests in precancerous conditions of the stomach. Pol. tyg. lek. 19 no.2:49-51 Ja '64.

1. Z III Kliniki Chorob Wewnetrznych Wojskowej Akademii Medycznej w Lodzi (kierownik: prof. dr med. Andrzej Himmel).

DOTAREMICZ, in a Maria M

INDULSKI, Janusz, dr. med.; HANKE, Janusz.

Role of the physician in furthering the efficiency of analytic laboratories. Wiad. lek. 18 no.8:667-673 15 Ap 165.

1. Z Zakladu Organizacji Ochrony Zdrowia Akademii Medycznej w Lodzi (Kierownik: dr. med. J. Indulski).

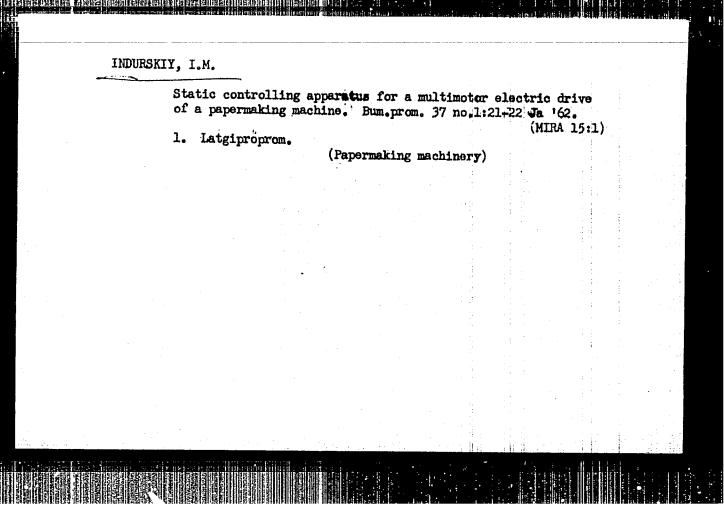
INDURSKIY, I.M., insh.

Improving a dynamoelectric amplifier. Bum.prom. 33 no.10:
20-22 0 '58.

(NIRA 11:11)

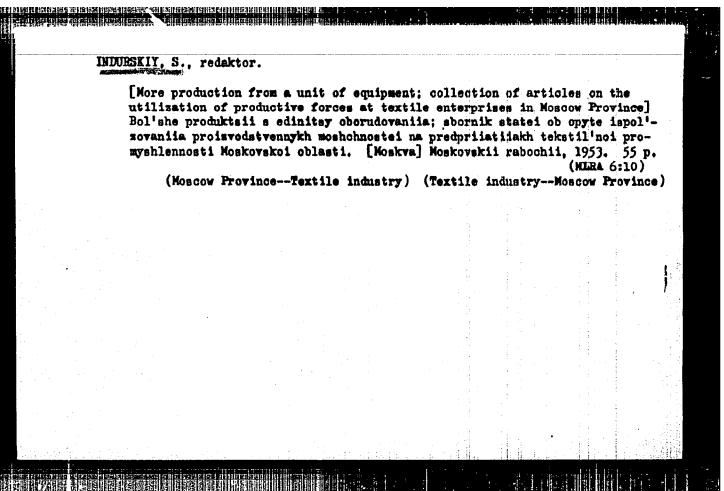
1. Balakhminskiy tsellymlosno-bumeshnyy kombinat.

(Riectric generators)

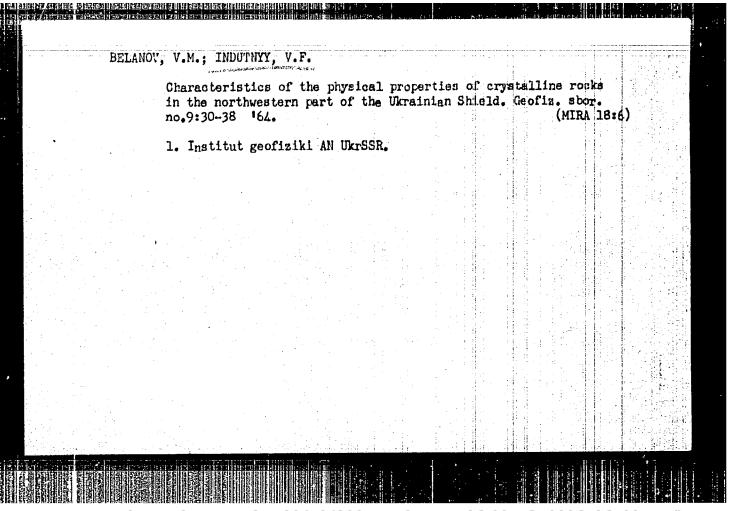


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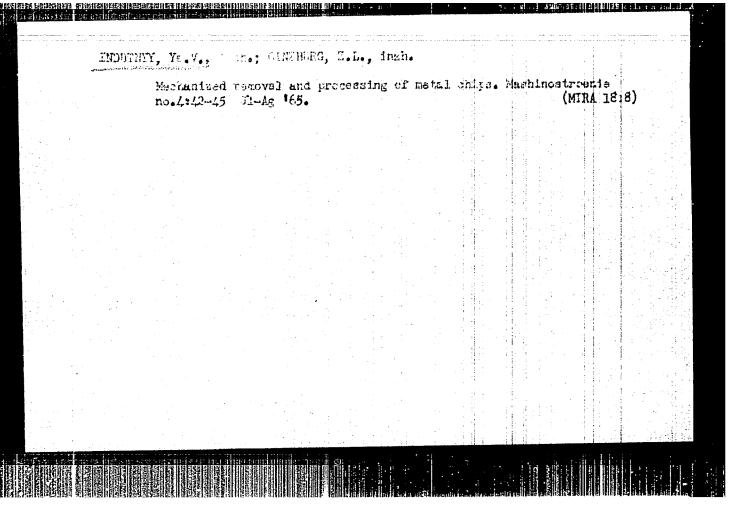
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MYLKO, Sergey Nesterovich, kand. tekhn. nauk; GONCHAROV, Ivan
Nikolayevich, kand. tekhn. nauk; TARASENKO, Ivan Ivanovich,
inzh.; KIMLAT, Zyunya Aronovich, inzh.; INDUTNYY
Vasil'yevich, inzh.; DOROFEYEV, Yuriy Grigor'yevich, kand.
tekhn. nauk; CHUKMASOV, S.F., doktor tekhn. nauk, matsenzent;
KUDELYA, F.Ya., inzh., retsenzent; TANCHAROVA, V.F., red.imlva; MATUSEVICH, S.M., tekhn. red.

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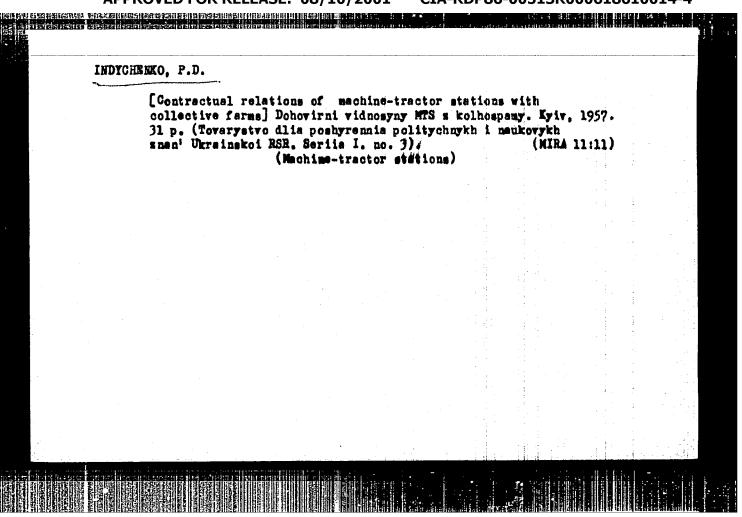
[Uses for scrap metal] Ispol'zovanie metallicheskoi strushki. Kiev, Gostekhizdat USSR, 1963. 142 p. (MIRA 16:12) (Scrap metals)

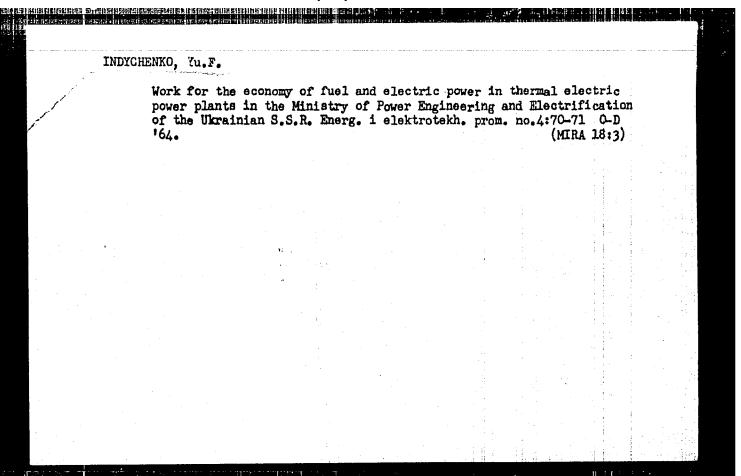


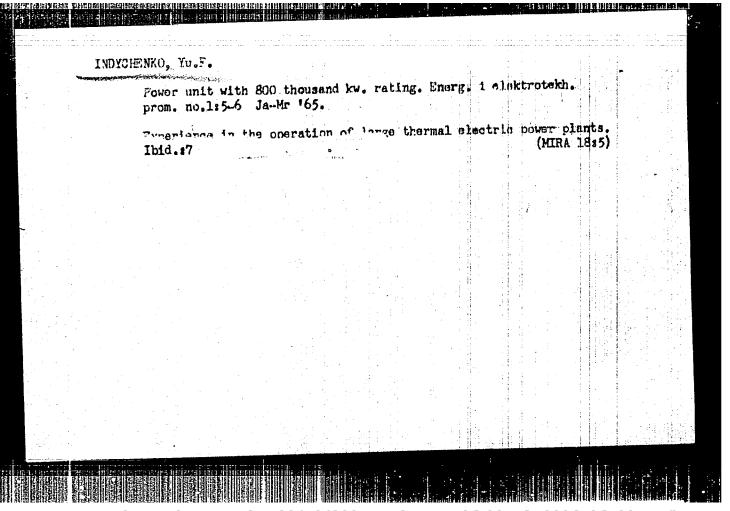
INDYCHENKO, N.I.; ZTABLITSNY, I.V.; TIMOSHENKO, N.M.; BATSENKO, H.P.;
VIZHLYAK, V.G.; CHALYUK, S.M.; VALOSHIMA, C.G.

Popular textbook on electric centralization ("Mectric centralization of switches and signals" by A.A. Kasakov. Reviewed by N.I.
Indychenko and others). Aytom., telem. i svias' 2 no.,7:48 Jl '58.

(REAL TOWNS AND STATE OF THE STATE OF THE







Indyk, B.; kempinski, T.

The problem of the importance of permanent triangulation towers in topography.

P. 12 (FRZEGLAD GEODEZYJNY) Poland, Vol. 13, No. 1, Jan. 1957.

SO: Monthly Index of East European Accessions (AEEI) Vol. 6, No. 11, November 1957

POLAND

MIKLASZEWSKA, Jadwiga, INDYKOWA, Maria, and ORZECHOWSKA, Krystyna, Division of Internal Diseases (Oddział Wewnetrzny) Hospital (Szpital) im. Stefana Zeromskiego in Krakow-Nowa Huta (Director: Docent. Dr. J. MIKLASZEWSKA)

"A Reticulum Cell Sarcoma with Symptoms of Hypersplenia and Panagglutination."

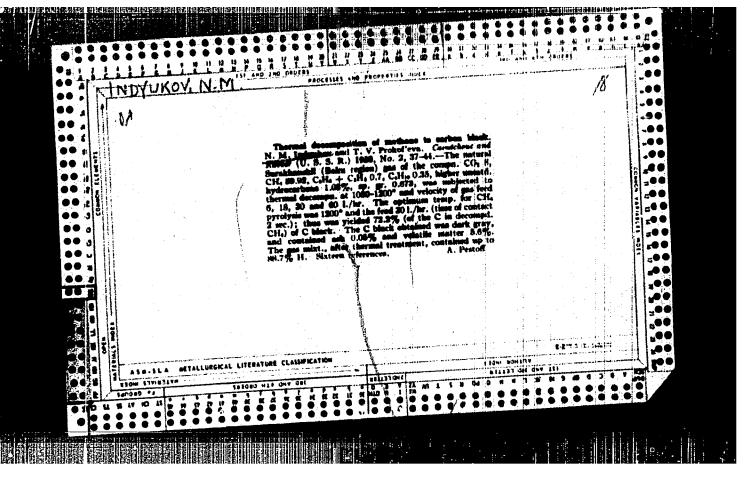
Warsaw-Krakow, Przeglad Lekarski, Vol 19, Ser II, No 3, [24 Mar] 63, pp 189-191.

Abstract: [Authors' English summary] A description is given of a reticulum cell sarcoma in a 27-year old single woman. The disease took the very rarely encountered form of splenomegaly, with enlargement of only one of the peripheral lymph nodules. Besides hemolytic anemia and the hemorrhagic diathesis, the patient also exhibited panagglutination, a positive Commbs reaction, and a moderate degree of beta hyperglobulinaemia. The ten references contain two each French and English, and the others Polish.

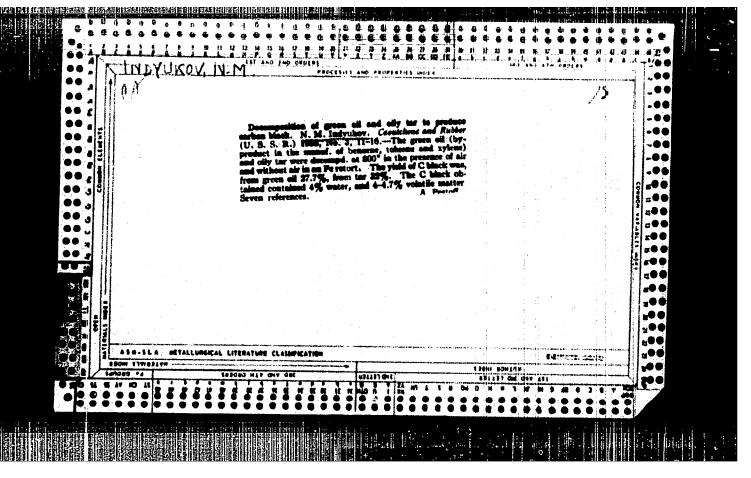
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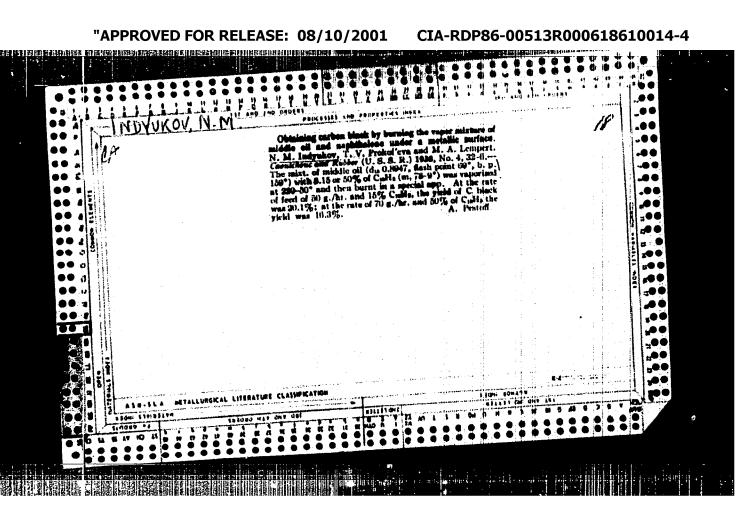
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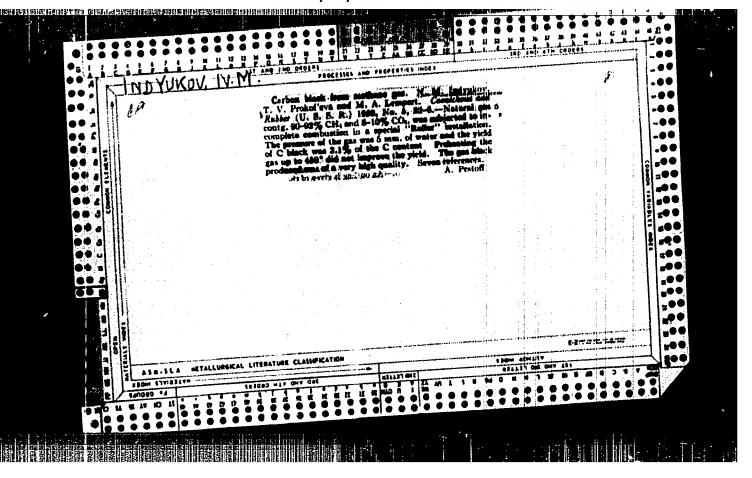
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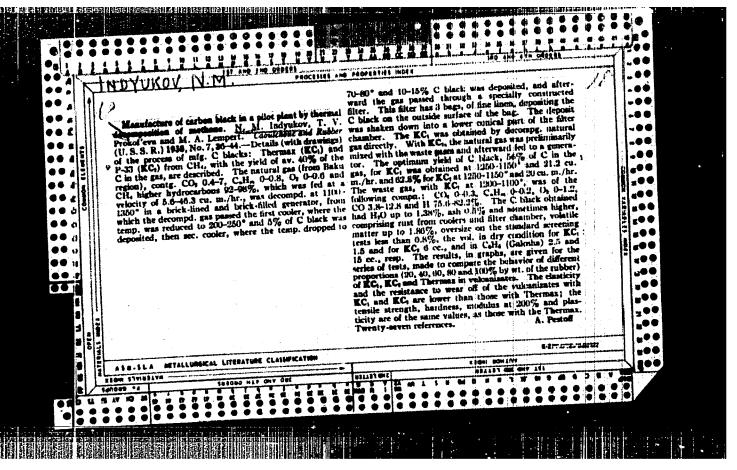


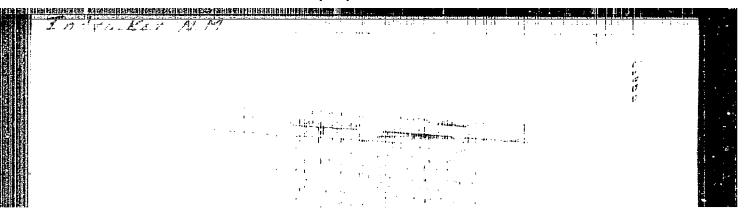
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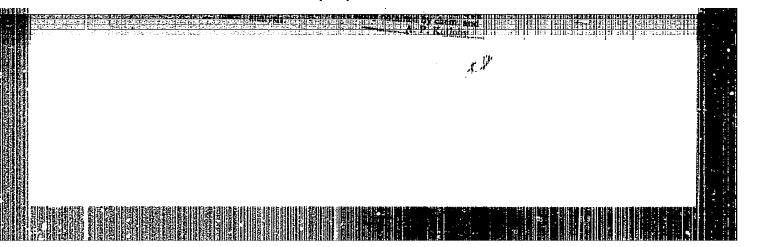


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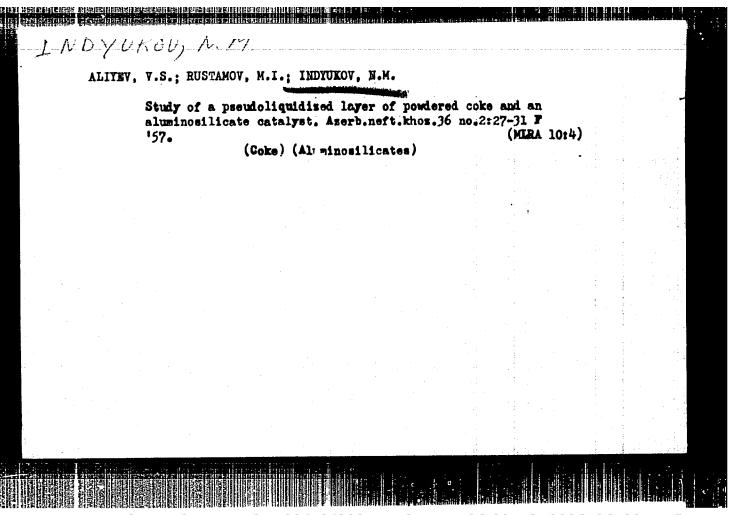


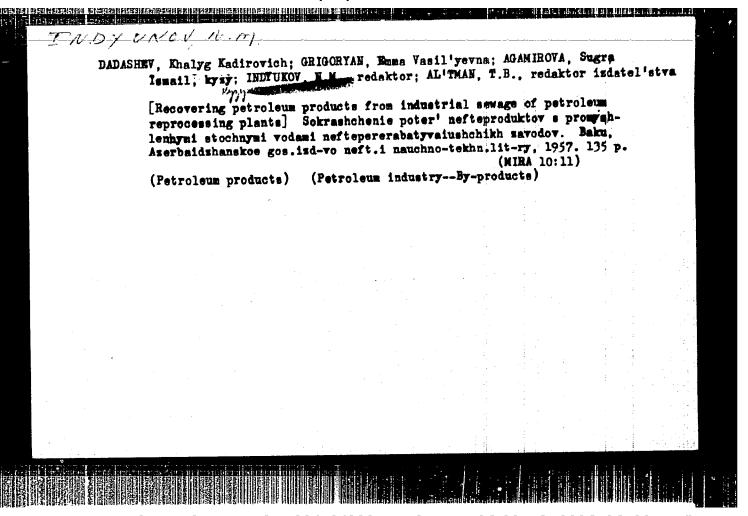


SHEVISOV, I.S.; INDYUKOV, M.M.; RUSTAMOV, M.I.

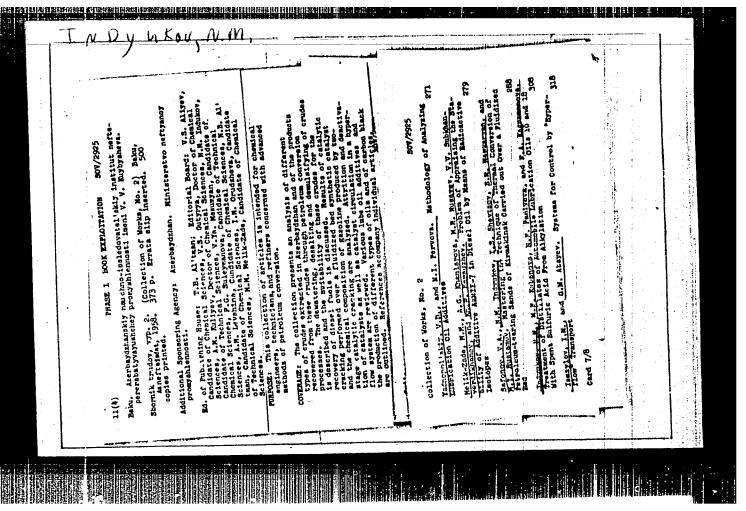
Heans for increasing the yield of the light-colored oil products and the lowering of technical losses in atmospheric and vacuum installations. Ehim.i tekh.topl. no.ll:26-29 F 156, (MEA 9:11)

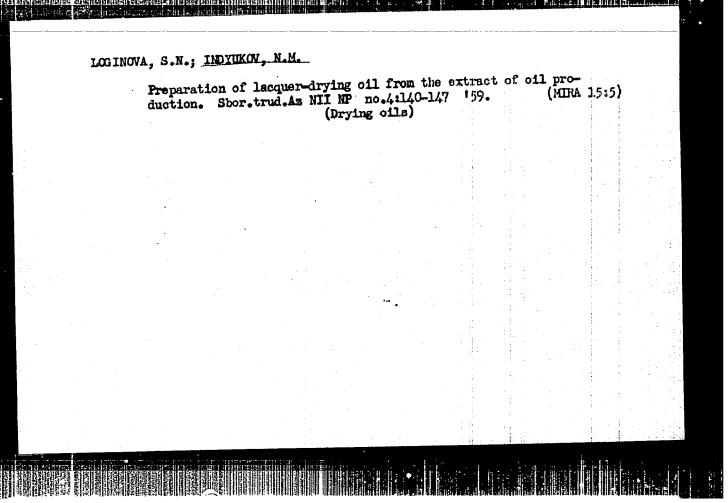
1. Aserbaydshanskiy neuchno-issledovatel'skiy institut meftyansy promyshlennosti imeni Emptysheva.
(Petroleum-Refining)

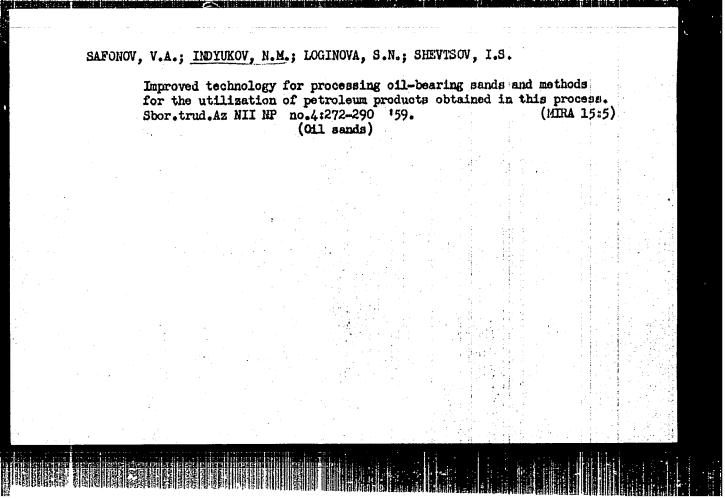




"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618610014-4







INDYUKOV, N.H.; KABANDVA, M.F.

Catalytic cracking of thermally cracked kerosene, khim.i tekh.topl.i meel 5 no.5:8-11 My '60. (MIBA 13:7)

1. Aserbaydshanskiy nauchno-iseled.vatel kitu institut neitsperstabs. Syvayushchiy promyshlennosti im. V.V..

Eurybysheva.

(Kerosene) (Cracking process) (Casoline)

S/065/61/000/002/002/008 E030/E235

AUTHORS: Indyukov, N. M. and Loginova, S. N.

TITLE: Catalytic Refining of Thermally Cracked Kerosine

THE PERSON OF THE PROPERTY OF THE PERSON OF

PERIODICAL: Khimiya i tekhnologiya topliv i masel, 1961, No. 2,

pp. 16-20

TEXT: Laboratory and pilot plant experiments have been prepared and conducted on refining thermally cracked kerosine over an aluminosilicate catalyst. The intention was to increase the output of diesel fuels, and previous refining treatments, such as hydrostabilization, acid washing, and hydrogenation, have not proved satisfactory. The kerosine raw material obtained at the Zavod imeni V. Sturua (Plant imeni V. Sturua) was as follows:

Specif	ic gra	vity d_{μ}^{20}	0		0.8504
Compos		°C:			
	B.P.			•	174
109	% ∀ol.	boiling	up	to	203
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Card 1/6

S/065, E030/1	/61/000/00 E235	2/002/008	
Catalytic Refining of Thermally Cracked I	Kerosine		
Composition, °C: 90% vol. boiling up to F.B.P."	274 300		
Molecular weight Kinematic Viscosity at 20°C (c.s) Gum existent (mg/100 gm)	176.8 2.82 84.0		
% Wt. Sulphur Acid value (mg KOH/100 gm)	0.18 2.31		
Iodine number Sulphonatables, % volume Hydrocarbon type analysis:	58.5 40.0		_
 Unsaturateds and aromatics Naphthenes Paraffins 	42.8 26.5 30.7		。 3 1
4. Octane number 5. Cetane number	56.8 40.2		
In both plants the catalyst had an active temperature range investigated was 240-3	ity value 30°C. It	of 32, and t was found th	he at
Card 2/6			·

5. , , , , , , , , , , , , , , , , , , ,		•							S/065 E030/	/61/ E235	/000 <i>/</i>	'002,	/002	/008					
	the	cata	c Refi lyst d obtain	isin	tegre	ted	at t	tempe	ratur	es m	nich	held		+0°C	;				
				•			Tabi	e 1.	•		•			eror.					
		. •			Показа	тели	•		Tempe 330	zeo	240	330	a, °C 300	280	290		Í		
			•				•		5,0	Колич 4,4	5,8	1.		% вес. и пара		w+} 	kr		
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S/065/61/000/002/002/008 E030/E235

Catalytic Refining of Thermally Cracked Kerosine

The space velocity was 0.7 kg/kg hr for temperatures of 330 and 300°, and 1 kg/kg hr at all others. Although the highest output is obtained at 240°C in the presence of added water vapour, the acid value is high (11.7), and lower values are obtained (5.5 to 6.9) without added water. Optimum working conditions are thus 260-300°C, and 0.7 to 1 kg/kg hr space velocity. Pilot plant results (with fluid bed, and 10 to 12% water added) are also tabulated. The mass balance at the optimum conditions of 260-300°C and 1 kg/kg hr are as follows:

Catalyst	91-92
Polymer	2.8-2.9
Gas	0.8-1.0
Coke	2.9-3.0
Loss	1.20-2.3

The catalyzate would satisfy diesel oil specification BTY 586-56 (VTU 586-56), except for flash point, but removal of the 12% fraction boiling up to 165°C overcomes this as shown:

Card 5/6

8/065/61/000/002/002/008 E030/E235

Catalytic Refining of Thermally Cracked Kerosine

Specific Gravity Composition °C:	Catalyzate 0.8420	Diesel Oil Specif. VTU 586-56
I.B.P.	165	
1.0% 50%	185 225	not less than 140
90%	279 279	not greater than 250
F.B.P. Iodine number	299	
Cetane number	4.40 40.0	40.0
l. Viscosity at 20°C (cs)	2.22	≥1.7
2. Acid value, mg KOH/100gm Pour point (°C)	4.2 -41	5 5.0
3. Flash point(closed) °C	36.0	not greater than -35 not less than 35
There are 7 tehles 7 fam.	3 6 6	

There are 3 tables, 1 figure and 6 Soviet references.

ASSOCIATION: INKhP AN AZSSR

Card 6/6

INDYUKOV, N.M.; GONCHAROVA, M.A.; SIDORCHUK, I.I.; GASANOVA, R.I.

Catalytic reforming of low-octane gasolines with plium content of naphthenic hydrocarbons. Khim.i tekh.topl.i masel 6 no.9:15-19 S '61. (MIRA 14:10)

1. Institut neftekhimicheskikh protsessov AN AzerSSR. (Gasoline) (Hydrocarbons)

ALIYEV, Vagab Safarovich; INDYUKOV, Nikolay Mikhaylovich; YEFIMOVA, Sof'ya Abramovna; GONCHAROVA, Mariya Alekseyevna; SIDORCHUK, Igor' Ivanovich; NAGIYEV, M.F., akad., red.; DOLGOV, V., red. izd-va

[Catalytic cracking of petroleum crudes with the use of fluidized bed techniques] Issledovaniia v oblasti kataliticheskogo krekinga neftianogo syr'ia s primeneniem tekhniki kipiashchego sloia.

Baku, Izd-vo Akad. nauk Azerbaidzhanskoi SSR, 1962. 310 p.

(MIRA 15:5)

(Cracking process) (Fluidization)

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ALIYEV, V.S.; INDYUKOV, N.M.; KABANOVA, M.F.; SAFONOV, V.A.; SHEVTSOV, I.S.

Pyrolysis of oil distillates and residues in the fluidized bed of a heat carrier. Khim. i tekh. topl. i masel 7 no.10: 27-31 0*62 (MIRA 17:7)

1. Institut neftekhimicheskikh protsessov AN AmerSSR.

\$/065/63/000/**00**1/001/005 E075/E436

AUTHORS:

Indyukov, N.M., Daniyelyan, N.K.

NTO POLICION ENGENTE E ESCONSIGNACION DECENERATION DESSENTATION DE LA CONTRACTOR DE LA CONT

TITLE:

. Hydrocarbons of the naphthalene series in naphtha and

gas oils from catalytic cracking

PERIODICAL: Khimiya i tekhnologiya topliv i masel, no.1, 1963,

16-19

TEXT: Alkyl naphthalenes were isolated from naphtha and light and heavy gas oils from catalytic cracking to satisfy the increasing industrial demand for phthalic anhydride. naphthalene hydrocarbons were isolated from aromatic portions of the oils separated on silica gel and distilled to produce 10°C cuts. Alkylnaphthalenes in the cuts were separated via picrate formation. The naphtha fractions contained naphthalene (0.59% of the original naphtha), F-methylnaphthalene (3.66%), 1,6-dimethylnaphthalene The light gas oil fractions contained dimethylnaphthal-(2.15%). enes (2.05%) and trimethylnaphthalenes (2.43%). The heavy gas oil fractions contained dimethylnaphthalenes (3.3%), trimethylnaphthalenes (1.38%) and tetramethylnaphthalenes (1.12%). There are 5 tables.

ASSOCIATION: INKhP AN Azerb SSR (INKhP AS Azerb SSR)

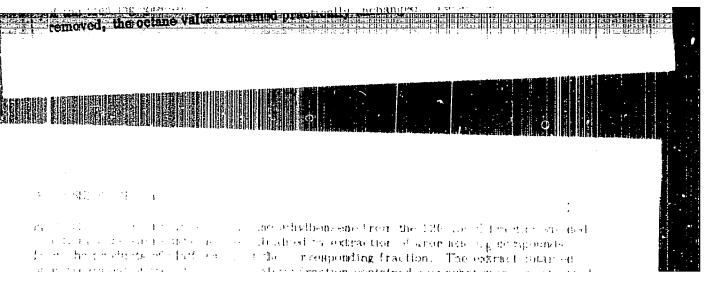
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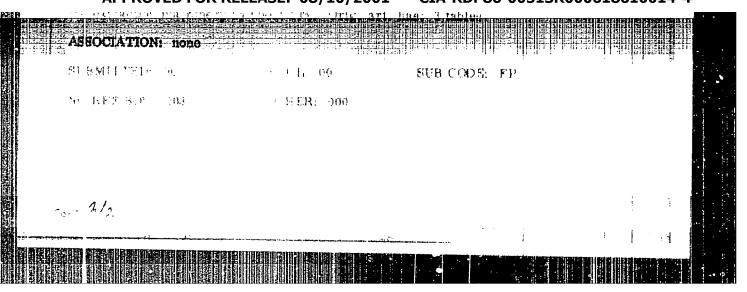
INDYUKOV, N.M.; SIDORCHUK, I.I.; MARDANOV, M.A., red.

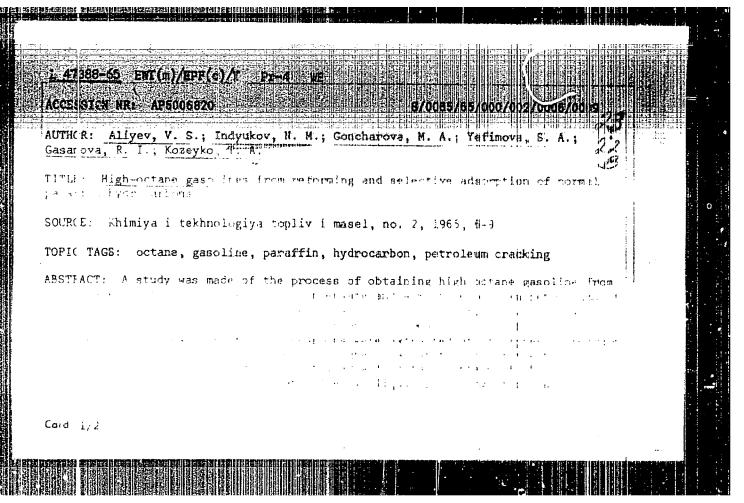
[Low-molecular aromatic hydrogarbons from petroleum crudes] Niskomolekuliarnye aromaticheskie uglevodorody iz neftianogo syr'ia. Baku, Azerneshr, 1964. 169 p.

(MIRA 18:2)

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INDYUKOV, N.M.; DANIYELYAN, M.K.

Study of naphthalene from petroleum raw material. Khim. prom. 41 no.2:22-24 F '65. (MIRA 18:4)

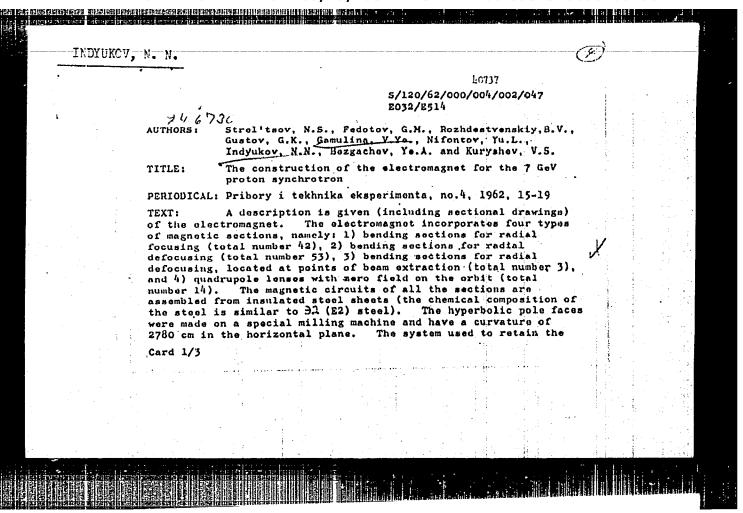
APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618610014-

ALIYEV, V.S.; INDYUKOV, N.M.; CONCHAROVA, M.A.; YEFIMOVA, S.A.; GASANOVA, R.I.; F.ZEYKO, T.A.

Reforming of high-octane gasolines and the selective adsorption of normal paraffin hydrocarbons. Khim. i tekh. topl. i masel 10 no.2:6-9 F *65. (MIRA 18:8)

1. Institut neftekhimicheskikh protsessov AN AzerSSR.





The construction of the ... 5/120/62/000/004/002/047 E032/E514

steel sheets in position was such that the deformation of the hyperbolic face was +(0.1-0.15)mm after two days and ±0.03 mm after two months. The design of the neutral pole faces of the bending magnets was such that their deformation and the electrodynamic stresses did not exceed 0.05 mm. The main winding dynamic stresses did not exceed 0.05 mm. The main winding consists of 48 turns connected in series and arranged in ten sections. The winding is made of rectangular copper piping which was manufactured by the Leningrad factory "Krasnyy Whorzhets". In addition to the main winding, there are three Vyborzhets". In addition to the main winding, there are three vyborzhets coils which are used to correct the magnetic field. Compensating coils which are used to correct the magnetic field. Water cooling is used and the insulation is sufficient to withstand 2 kV. The extracting magnets, which are used to extract the beam into the experimental area, consist of a main coil (8 turns; copper piping) and two compensating coils (8 turns each; copper piping). Finally, the quadrupole lenses carry an each; copper piping. Finally, the quadrupole lenses carry an the form of copper piping. In order to facilitate the positioning of all the electromagnets, each of them carried special markers which were used to relate their position to the appropriate points

Card 2/3

s/120/62/000/004/002/047 The construction of the ... E032/E514 on the basic geodesic grid. Special mechanisms were used to on the basic geodesic great special plane to magnets. They can be adjusted by +2 cm in the vertical plane to an accuracy of 0.001 cm and by +8.5 cm in the radial direction to an accuracy of 0.002 cm. The former adjustment is made with the aid of special wedges and the latter by a screw- . driven mechanism. The azimuthal adjustment is made by simple wedge devices and can be achieved to an accuracy of ±0.05 cm. There are 6 figures. Nauchno-issledovatel skiy institut elektro-fizichoskoy apparatury GKAE (Scientific Research Institute of Electrophysical ASSOCIATIONS: Apparatus GKAE) and Institut teoreticheskoy i eksperimental'noy fiziki GKAE (Institute of Theoretical and Experimental Physics GKAE) April 6, 1962 SUBMITTED: Card 3/3

STREL'TSOV, M.S.; FEDOTOV, G.M.; ROZHDESTVEMSKIY, B.V.; GUSTOV, G.K.;
GAMULINA, V.Te.; MITOSTOV, Yu.L.; IMDYUKOV, M.M.; BEZGACHEV,
Ye.A.; KURYSHEV, V.S.

Design of the electromagnet of the 7 bev. proton synchrotron.
Prib. i tekh. eksp. 7 no.4:15-19 Jl-Ag '62.

(MIRA 16:4)

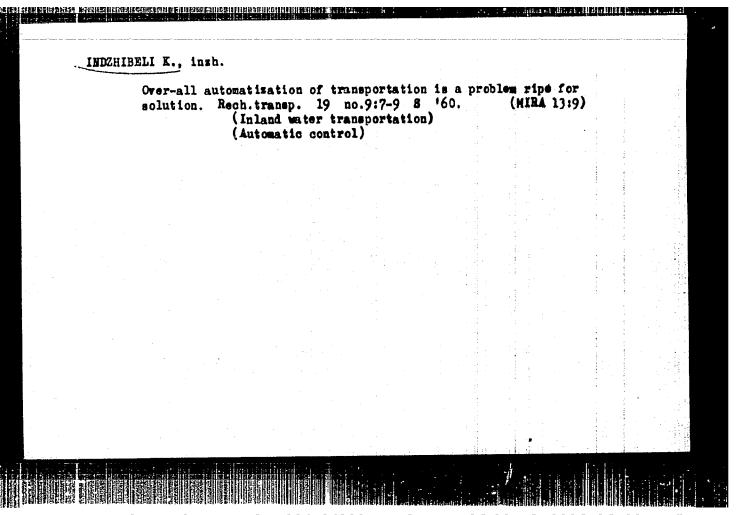
1. Mauchno-issledovatel'skiy institut elektrofisicheskoy apparatury
Gesudarstvennogo komiteta po ispol'sovaniyu atomnoy energii SSSR
i Institut teoreticheskoy i eksperimental'noy fiziki Gesudarstvennogo komiteta po ispol'sovaniyu atomnoy energii SSSR.

(Electromagnets) (Synchrotron)

INDUTNYY, Ye.V., inzh.

Over-all mechanization of the removal and reprocessing of metal chips. Mashinostroenie no.4:31-33 J1-Ag '63. (MIRA 17:2)

1. Khar'kovškoje otdelenije TSentral'nogo konstruktorskogo byuro Gosplana UkrSSR.

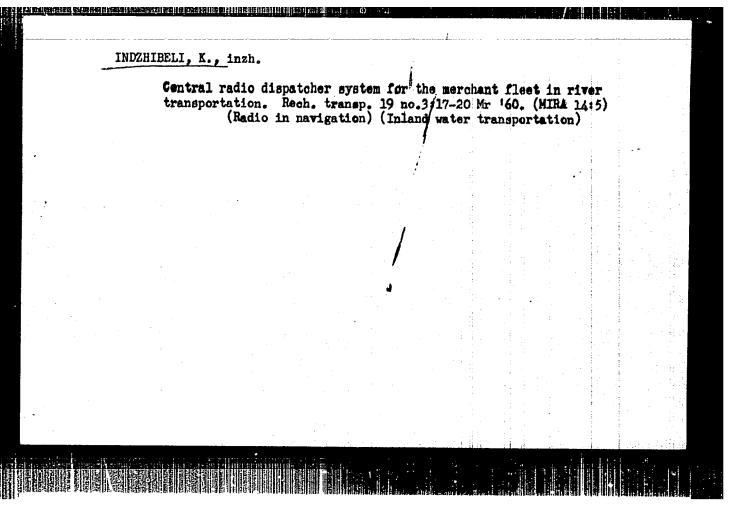


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INDZHIBELI, K.

Preparing for the transition to the seven-hour day. NTO 2 no.7:45 J1 '60. (MIRA 13:7)

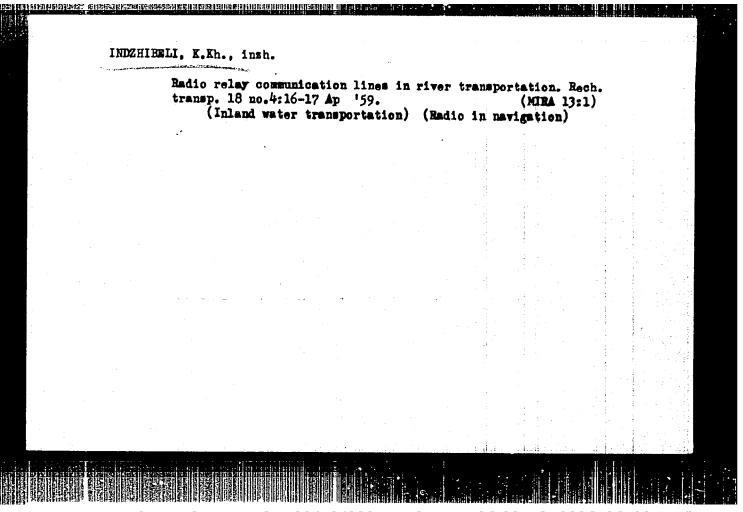
1. Zamestitel' predsedatelya soveta pervichnoy organizatsii Mauchno-tekhnicheskogo obshchestva "Giprorechtransa," Moskva. (Moscow-Hours of work)



SUKHOV, Daitriy Konstantinovich; POSPELOV, A.A., retsenzent; DMITRIYEVSKIY,
M.V., retsenzent; IMDZHIRBELI, K.Kh., redaktor; EAN, P.M., redektor
izdatel'stva; SALAZKOV, E.F., vermironeskiy redaktor

[Manual for inspector of communication lines] Uchemnee posoble
dlia lineinogo nademotrshchika eviasi. Moskva, Isd-vo "Rechnei
transpert;" 1956. 231 p.

(Telephone lines) (Telegraph lines)



"Cooperating the cotton industry in Bulgaria."

p.9 (Leka Promishlenost) Vol. 6, no. 11, 1957. Onlia, Bulgaria

So: Monthly Index of Fast European Accessions (EEAI) LC, Vol. 7, no. 5 May 1958

台灣最初的自身的,你不便有效付付的控制还是完全的政策的影響自身的影響。因此接触的人员的制度的制度的制度引起的制度。但可能包括"特别"。 (1) (1)

S/137/60/000/011/002/043 A006/A001

Translation from: Referativnyy zhurnal, Metallurgiya, 1960, No. 11, p. 16, # 25270

AUTHORS:

Mikadze, I.S., Chachanidze, O.V., Indzhid, G.A., Lazarashvili, I.G.

TITLE:

On the Use of a Mathematical Computer for Controlling the Electrical

Conditions of Ferroalloy Arc Furnaces

PERIODICAL:

Dokl. Nauchno-proizv. konferentsii mashinostroiteley i priborostroi-

teley, Leningrad, Sudpromgiz, 1959, pp. 123 - 128

TECT: To improve the process in ferroalloy furnaces and to bring about its comprehensive automation, an analog computer is being developed to control the electrical conditions of ferroalloy are furnaces by root-mean-square current values and mean values of useful power. The computer is intended for the joint operation with the existing regulator. During melting of the charge the maximum permissible power supply is controlled. During refining, only the programmed temperature of the molten metal has to be maintained. The following methods of con-

Card 1/2

8/137/60/000/011/002/043 A006/A001

On the Use of a Mathematical Computer to Controlling the Electrical Conditions of Ferroalloy Arc Furnaces

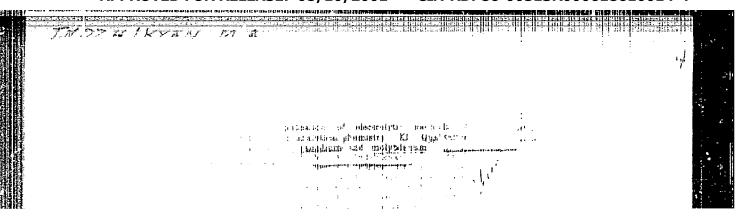
trolling the electric conditions of the furnace are possible when using the computer: by the mean value of the square of current; the summary real power; the summary useful power; the useful power of each phase.

V.B.

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618610014-4"



K.MARX. FOY

5 (4), 5 (2) AUTHORS:

Alchudzhan, A. A., Indzhikyan, M. A., 507/76-33-5-4/33

(Yerevan)

TITLE:

On the Catalytic Properties of the System Pt - Au (O

kataliticheskikh svoystvakh sistemy Pt - Au)

PERIODICAL:

Zhurnal fizicheskoy khirii, 1959, Vol 33, Nr 5,

pp 983-987 (USSR)

ABSTRACT:

The data by publications on the system mentioned in the title (Refs 4-11) are discussed, and it is referred to the X-ray investigations by K. A. Lapteva, T. I. Borisova, and M. G. Slin'ko (Ref 11). According to these investigations, platinumgold alloys with 5.04 and 9.5 atms Au are one-phase, and alloys with 20, 30, 39, 59, 63, and 87 atms Au are two-phase. The measuring apparatus for the catalytic hydration process is described in reference 2. 0.01 g Pt or Au were used in the investigation of catalytic activity, and quantities with a Pt content of 0.01 g were used in the case of Au and Pt catalysts. The ratio platinum; gold in the catalysts was varied

from 99:1 to 1:3. Hydrogen and benzene in the ratio of 1:4

APPROVED FOR RECEASE 08/hx/2001 to CPA-RD 100513R003618610014-4" card 1/3 throughput of 1.5 l H/h. Figure 1 shows the temporal variation

On the Catalytic Properties of the System Pt - Au SOV

SOV/76-33-5-4/33

of the Pt and Pt-Au catalysts investigated. Hence it appears that the activity decreases in the beginning but then remains constant. Figure 2 shows the variation of the activity of Pt and Pt-Au catalysts depending on the gold content. The activity increases with small gold additions, reaches a maximum with Au $(2\frac{1}{2})$ times the activity of pure Pt), and then decreases continuously. A catalyst with 75 % Au is completely inactive. It might be that the activity increase observed with an addition of up to 5 % Au is related to the increase of the active surface which covers the actual activity decrease. Otherwise it would be inexplicable why a catalyst with only 25 % Pt is completely inactive. The authors had already earlier assumed (Refs 1 and 2) that there is a relation between the magnetic properties of the catalysts investigated by them, and the catalytic activity of the catalysts. They point out that according to data from publications (Ref 6) the paramagnetism of the Pt-Au allcy with 68-70 % Au content equals zero. If gold is added, the amount of holes in the d-zone of the alloy and together with it the satalytic activity must decrease. The authors found similar relations in connection with the

Card 2/3

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On the Catalytic Properties of the System Pt - Au SOV/76-33-5-4/33

other catalysts investigated by them. The fact that Pt-Au catalysts react differently on oxydation of SO, (Ref 13) can be thus explained that platinum as well as gold are active towards SO2 which is not true for the hydrogenation of benzene. The solubility of hydrogen in the system varies if

gold is added and, there seems to be a direct relation between this solubility and the catalytic activity. There are 2 figures and 16 references, 9 of which are Soviet.

ASSOCIATION:

Yerevanskiy politekhnicheskiy institut im. K. Markea

(Yerevan Polytechnic Institute imeni K. Marx)

SUBMITTED: October 12, 1957

Card 3/3

CIA-RDP86-00513R000618610014-4" APPROVED FOR RELEASE: 08/10/2001

5 (4) AUTHORS: Alchudzhan, A. A., Indzhikyan, M. A.

sov/76-33-7-4/40

TITLE:

On the Catalytic Properties of the System Pd + Pt

PERIODICAL:

Zhurnal fizicheskoy khimii, 1959, Vol 33, Mr 7, pp 1467 - 1472

(USSR)

ABSTRACT:

It was already found (Refs 1-5) that there is a certain relationship between the catalytic and magnetic properties of catalysts (C). In the present paper, the authors investigated the catalytic activity of mixed Pd + Pt (C) with respect to benzene catalytic activity of mixed Pd + Pt (C) with respect to benzene hydrogenation, and compared the experimental results with data available in publications on the magnetic properties of these systems. The activity of the (C) was determined from the rate of benzene (I) hydrogenation to cyclohexane (II). The apparatus used is similar to that of (Refs 15 and 16). The catalysts were prepared by the method (Ref 17). The ratio of Pd to Pt was prepared within the range 1: 10 - 10: 1. The experimental remodified within the range 1: 10 - 10: 1. The experimental results (Table 1) indicate that with increasing Pt content the activity of the (C) attains a minimum and then rises again. A small content of Pt in Pd or of Pd in Pt causes mutual activation of Pd and Pt, respectively. It was observed that the catalytic activity at the Pd - Pt ratios investigated never drops

Card 1/2

On the Catalytic Properties of the System Pd + Pt

SOV/76-33-7-4/40

to zero. This is ascribed to the fact that the magnetic susceptibility does not attain zero either at none of the above ratios. The minimum catalytic activity, determined at the ratios of Pd: Pt = 1:1 - 1:2, coincides with the minimum value of magnetic susceptibility of the alloy. Hydrogen, silver, and copper cause Pd to act in a similar way upon the magnetic and catalytic properties, i. e. the paramagnetism (P) of Pd as well as its catalytic activity with respect to (I)-hydrogenation are eliminated. Additions of Pt to Pd, however, do not destroy (as mentioned above) (P) and the catalytic activity. Additions of gold destroy (P) in Pd, but do not effect the catalytic activity. This is ascribed to excitation and splitting of the electron spin by the reaction heat. The catalytic activity is thus maintained. There are 3 figures, 2 tables, and 19 references, 10 of which are Soviet.

ASSOCIATION:

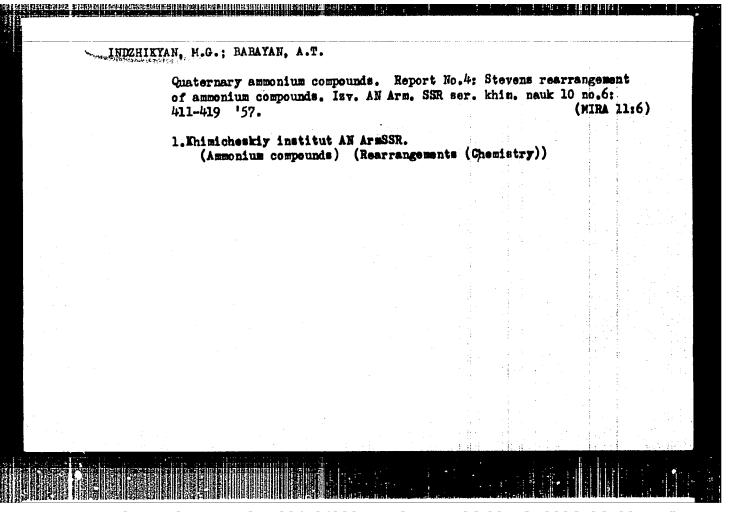
Yerevanskiy politekhnicheskiy institut im. K. Marksa (Yerevan Polytechnic Institute imeni K. Mark)

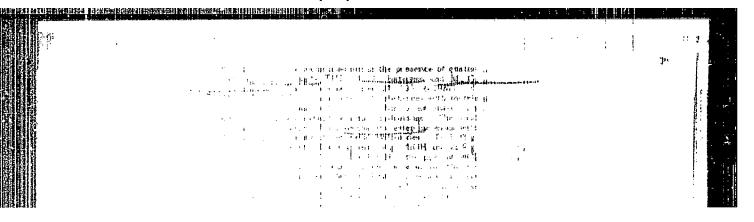
SUBMITTED: Card 2/2

July 31, 1957

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618610014-4"

Investigations in the field of quate Report No.8: Stability of bonds of c quaternary ammonium compounds. Izv. 10 no.3:213-221 57.	adicals in	
1. Khimicheskiy institut AM ArmSSR. (Ammonium compounds)	(Chemical bonds)	





INDZHIKYAN, M. G., Cand Chem Sci -- (diss) "Reactions of alkylation with the aid of quaternary ammonium compounds."

Mos, 1958. 14 pp (Acad Sci USSR, Inst of Elementoorganic Compounds), 100 copies (KL, 18-58, 96)

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THE STATE OF THE PROPERTY OF T

Comparative stability of bonds between the allyl and bensyl radicals and nitrogen. Dokl AN Arm. SSR 26 no.4:235-240 '58. (MIRA 11:5)

1.Chlen-kerrespondent AN Armyanskoy SSR (for Indshikyan).
2.Institut organicheskoy khimii Akademii nauk Armyanskey SSR.

(Allyl) (Bensyl) (Nitrogen)

5(4), 5(3)AUTHORS:

SOV/62-59-1-33/38

TITLE:

Babayan, A. T., Indzhikyan, M. G., Neyman, M. B.

On the Equivalence of Nitrogen Bonds in Tetramethyl-

Ammonium Bromide (O ravnotsennosti svyazey azota v bromistom tetrametilammonii)

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk,

1959, Nr 1, pp 174 - 174 (USSR)

ABSTRACT:

According to modern concepts the 4 nitrogen bonds in (CH3)4NBr

formed by sp bastardization are equivalent. In the present paper the authors checked these data. (C14H3)(CH3)3HBr

was synthesized according to the following scheme:

 $2c^{14}H_3OH + H_2SO_4 \rightarrow (c^{14}H_3)_2SO_4 + 2H_2O_1$

 $(c^{14}H_3)_2 so_4 + KBr \rightarrow c^{14}H_3 Br + K(c^{14}H_3) so_4;$

 $c^{14}H_3Br+(cH_3)_3N \rightarrow (c^{14}H_3)(cH_3)_3NBr$.

The last process took place at -80°. Furthermore, the product Card 1/2

obtained was decomposed in liquid ammonia solution. The

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618610014-4" On the Equivalence of Nitrogen Bonds in Tetramethyl-Ammonium Bromide

sov/62-59-1-33/38

following reaction took place in the solution: (CH₃)₄NBr+2K+NH₃ \longrightarrow CH₄+(CH₃)₃N+KBr+KNH₂. The results of the investigation are summarized in the table. It may be seen from it that methane separated during the decomposition of the ternary salt possesses 23% of the activity, whereas trimethyl amine possesses 78%. Thus, the experiments carried out at -80° confirmed the conclusions of the paper (Ref 1) and the generally assumed idea of the equivalence of the bonds of quadrivalent nitrogen. There are 1 table and 2 references, 1 of which is Soviet.

ASSOCIATION:

Institut khimicheskoy fiziki Akademii nauk SSSR (Institute

of Chemical Physics of the Academy of Sciences, USSR)

Institut organicheskoy khimii Akademii nauk ArmSSR (Institute of Organic Chemistry of the Academy of Sciences, Armenian R)

SUBMITTED:

June 20, 1958

Card 2/2

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618610014-4"

RARAYAN, A.T.; INDZHIKYAN, M.G.

Alkylatien in an aqueeus medium in the presence of quaternary amenium salts. Dekl. AM Arm. SSR 28 no.2:67-71 '59.

(MIRA 12:6)

1. Institut erganicheskey khimii AM ArmsSR. 2. Uhlen-kerrespendent AM ArmsSR (for Rabayan).

(Ammenium salts) (Alkylatien)

BABAYAN, A.T.; MARTIROSYAN, G.T.; VARTANYAN, N.G.; INDZHIKYAN, M.G.

Amines and ammonium compounds. Part 12: Synthesis of some amines. Zhur.ob.khim. 30 no.7:2263-2267 J1 '60.

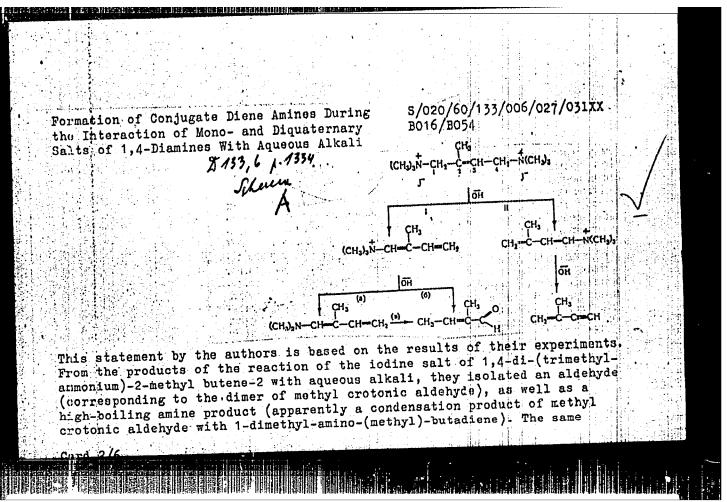
(MIRA 13:7)

1. Institut organicheskoy khimii Akademii nank Armyanskoy SSR.

(Amines)

and the second second S/020/60/133/006/027/031XX B016/B054 G., and Bagdasaryan, G. Babayan, A. T., AUTHORS: Formation of Conjugate Diene Amines During the Interaction of Mono- and Diquaternary Salts of 1,4-Diamines With TITLE: Aqueous Alkali Doklady Akademii nauk SSSR, 1960, Vol. 133, No. 6, PERIODICAL: pp. 1334-1336 TEXT: The authors report on their investigations of the reactions of mono- and diquaternary salts of 1,4-di-(dimethyl-amino)-2-methyl butene-2 They attempted to find out whether the double 1,4-cleavage of the diarmonium salt takes place simultaneously or by steps. The authors proved that the protonization of the hydrogen atoms of CA is suppressed by the conjugation of the methyl group. Thun, the order of the mentioned cleavage reactions is predetermined according to scheme (I). Card 1/6.

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618610014-4"



Formation of Conjugate Diene Amines During the Interaction of Mono- and Diquaternary Salts of 1,4-Diamines With Aqueous Alkali

Card 3/6

S/020/60/133/006/02**7/031XX**. B016/B054

result was obtained in the transition from a mixture of quaternary ammonium salt with alkali to an ammonium base. The authors did not succeed (contrary to a statement made by Ya. M. Slobodin, Ref. 5) in detecting even traces of 2-methyl vinyl acetylene in the reaction products. This fact speaks in favor of scheme I. The authors further cleft the monoiodo methyl derivative of 1,4-di-(dimethyl-amino)-2-methyl butene-2 by aqueous alkali at a lower temperature (120°C). Here, the same products were formed as in the cleavage of the diquaternary salt. Subsequently, the authors cleft - in vacuo and at 105-107°C - the hydroxide they had produced by treating the monoiodo methylate of 1,4-di-(dimethyl-amino)-2-methyl butene-2 with an aqueous suspension of the silver oxide. Here, they isolated 1-dimethyl-amino-2-methyl butadiene-1,3 (yield about 40% of the theoretical one). The properties of this substance are described. From the fact that this substance forms dimethyl amine, as well as a corresponding derivative of & -methyl crotonic aldehyde, with the solutions of semicarbazide, 2,4-dinitro-phenyl hydrazine, and hydroxylamine, the authors conclude that the methyl in the diene amine takes a β -position with respect to the amino group:

Formation of Conjugate Diene Amines During the Interaction of Mono- and Diquaternary Salts of 1,4-Diamines With Aqueous Alkali S/020/60/133/006/027/031XXX B016/B054

$$(CH_3)_2N - CH = CH_3$$

consequently, the position of the methyl in the monoiodo methylate used is:

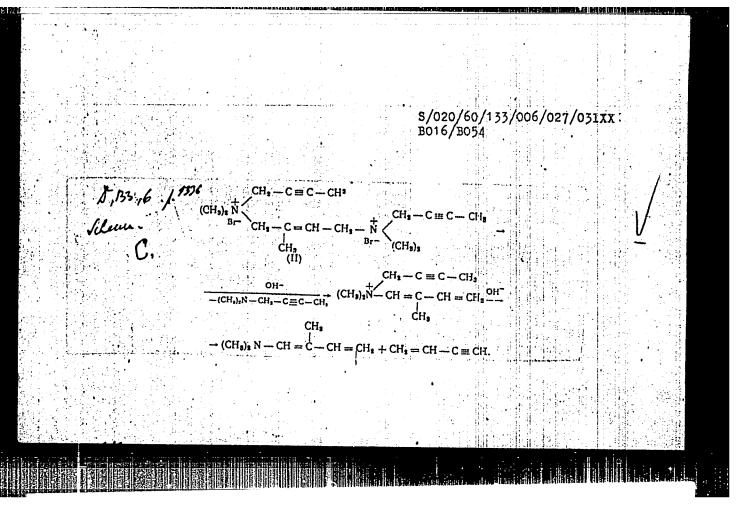
 $(cH_3)_2N - cH_2 - c = cH - cH_2 - \frac{1}{N}(cH_3)_2$

On the basis of these results, the authors assume that the second cleavage step of diiodo methylate (step (a) of scheme I) requires a higher temperature (140-145°C) than was hitherto applied. To settle this question, they studied the behavior of two other diquaternary ammonium salts (I) and (II) towards aqueous alkali. It was proved that the alkaline cleavage of (I) already occurred at the temperature of the boiling water bath (see scheme B). The similar cleavage of (II) is illustrated by scheme C. Thus, the authors proved that the diquaternary ammonium salts (I) and (II) are cleft by alkali according to scheme I, i.e., exclusively via step (a) (see scheme A). There are 5 Soviet references.

Card 4/6

	Conjugate Diene Amines During \$/020/60/133/006/027/031XX.
	on of Mono- and Diquaternary B016/B054 Diamines With Aqueous Alkali
ASSOCIATION:	Institut organicheskoy khimii Akademii nauk ArmSSSR (Institute of Organic Chemistry of the Academy of Sciences Armyanskaya SSR)
PRESENTED:	April 12, 1960, by I. L. Knunyants, Academician
SUBMITTED:	April 10, 1960
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	Alkylation in an aqueous medium by means of quaternary										
:	ammoni	ammonium salts. Dokl. AN Arm. SSR 31 no. 2:79-86 60.									
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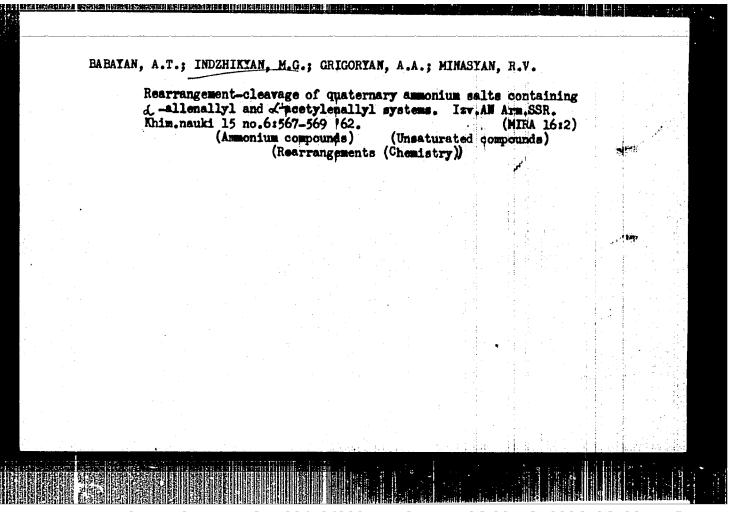
BABAYAN, A.T.; GEGELYAN, Zh.G.; INDZHIKYAN, M.G.

Amines and ammonium compounds. Part 14: Alkaline cleavage of

amines and ammonium compounds. Part 14: Alkaline cleavage of summonium salts containing an alkoxymethyl group in the δ -position of the β , γ -unsaturated radical. Zhur. ob. khim. 31 no. 2:611-616 F ¹61. (MIRA 14:2)

1. Institut organicheskoy khimii AN ArmSSR.
(Anmonium compounds)

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BABAYAN, A.T.; INDZHIKYAN, M.G.; BAGDASARYAN, G.B.

New reaction of the rearrangement and splitting of quaternary ammonium salts. Dokl. AN Arm. SSR 34 no.2:75-82 '62. (MIRA 15:4)

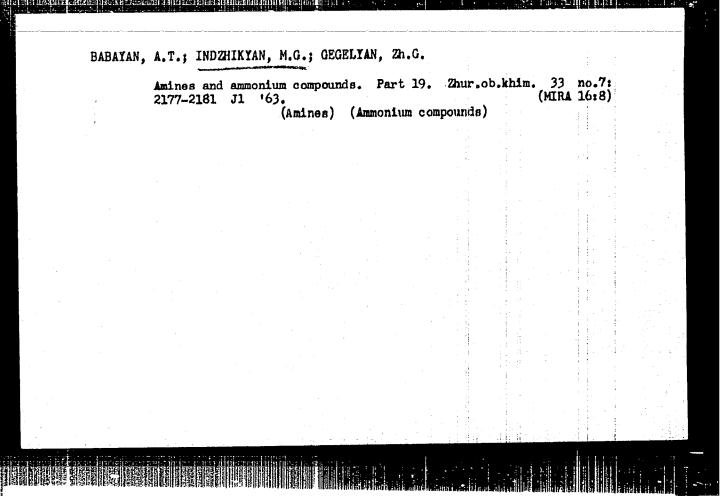
1. Institut organicheskoy khimii AN Armyanskoy SSR. 2. Chlenkorrespondent AN Armyanskoy SSR (for Babayan). (Ammonium salts)

BABAYAN, A.T.; INDZHIKYAN, M.G.; GRIGORYAN, A.A.; MINASYAN, R.V.

Amines and ammonium compounds. Part 17: Alkaline cleavage of ammonium salts containing an electron-acceptor substituent in the δ -position in the β , γ -unsaturated group. Zhur.ob.khim; 33 no.6:1766-1773 Je 53. (MIRA 16:7)

1. Institut organicheskoy khimii AN Armyanskoy SSR. (Ammonium compounds) (Alkalies) (Unsaturated compounds)

BABAYAN, A.T.; INDZHIKYAN, M.G.; AYVAZOVA, R.A. Amines and ammonium compounds. Part 18: Stevens rearrangement of quaternary ammonium compounds. Zhur, ob.khim. 33 no.6:1773-1778 Je '63. 1. Institut organicheskoy khimii AN Armyanskoy SSR. (Ammonium compounds) (Rearrangement (Chémistry))



BABAYAN, A.T.; INDZHIKYAN, M.G.; GEGELYAN, Zh.G.

Amines and ammonium compounds. Part 10: Alkali cleavage of ammonium salts containing an electron-acceptor group in the position of the positio

BABAYAN, A.T.; INDZHIKYAN, M.G.; DAVTYAN, N.M.

Alkaline cleavage of 1.2-diquaternary ammonium salts. Dokl. AN Arm. SSR 35 no.4:173-176 '62. (MIRA 17:1)

1. Institut organicheskoy khimii AN Armyanskoy SSR. 2. Chlen-korrespondent AN Armyanskoy SSR (for Babayan).

BABAYAN, A.T.; INDZHIKYAN, M.G.; BAGDASARYAN, G.B.

Amines and ammoniu compounds. Part 21: Rearrangement-cleavage of ammonium salts containing A, \(\beta \) -and \(\beta \) '-unsaturated groups. Zhur.ob.khim. 34 no. (MIRA 17:3)

1. Institut organicheskoy khimii AN Armyanskoy SSR.

BABAYAN, A.T.; INDZHIKYAN, M.G.; BAGDASARYAN, G.B.; DAVTYAN, N.M.

Amines and ammonium compounds. Part 22: Rearrangement-cleavage of ammonium salts containing -chloroethyl and allyl-type groups taking place under the effect of equeous alkali. Zhur.ob.khim. 34 no.2:416-421 F '64. (MIRA 17:3)

1. Institut organicheskoy khimii AN ArmSSR.

BABAYAN, A.T.; INDZHIKYAN, M.G.; TUMANYAN, L.R.

Rearrangement-cleavage of quaternary ammonium salts containing two allyl-type groups. Dokl. AN Arm. SSR 36 no.2:95-99 164. (MIRA 17:3)

1. Institut organicheskoy khimii AN Armyanskoy SSR. 2. Chlen-korrespondent AN Armyanskoy SSF (for Babayan).

BABAYAN, A.T.; MARTIROSYAN, G.T.; INDZHIKYAN, M.G.; DAVTYAN, N.M.

Chemism of the mineralization process of organically combined chlorine in the *lkaline cleavage of quaternary ammonium salts.

Dokl. AN Arm. SER 39 no. 2:99-106 '64. (MIRA 17:9)

1. Chlen-korrespondent AN ArmSSR (for Bubayan).

BABAYAN, A.T.; INDZHIKYAN, M.G.; GEGELYAN, Zh.G.

Amines and ammonium compounds. Part 25: Alkaline decomposition of quaternary ammonium salts containing a tertiary butyl substituent in the 5-position of the 5-unsaturated group. Izv. AN Arm, SSR. (MIRA 18:5)

1. Institut organicheskoy khimii AN Armyanskoy SSR.

OCHEYAN, A.T.; INDIBLEYAN, N.G.; BAGDASARYAN, G.B.

Amines and ammonium compounds. Part 29: Alkaline decomposition piperazinium sults containing the allyl-type group. Iav. AN Arm. SSR. Khim.nauki 18 no.41347.350 165.

1. Institut organicheskoy khimii AN Armyanskoy FER. Submitted March 21, 1964.

CIA-RDP86-00513R000618610014-4 "APPROVED FOR RELEASE: 08/10/2001

BABAYAM, A.T., INDTHIEVAN, M.G.; GIGHIYAN, Th.G.

Amines and ammonium compounds. Part 30: Alkaline decomposition of quaternary ammonium salts containing a methoxy substituent. Izv.AN Arm. SSR. Khim. nauki 18 no. 4:351-359 165.

(MIRA 18:12)

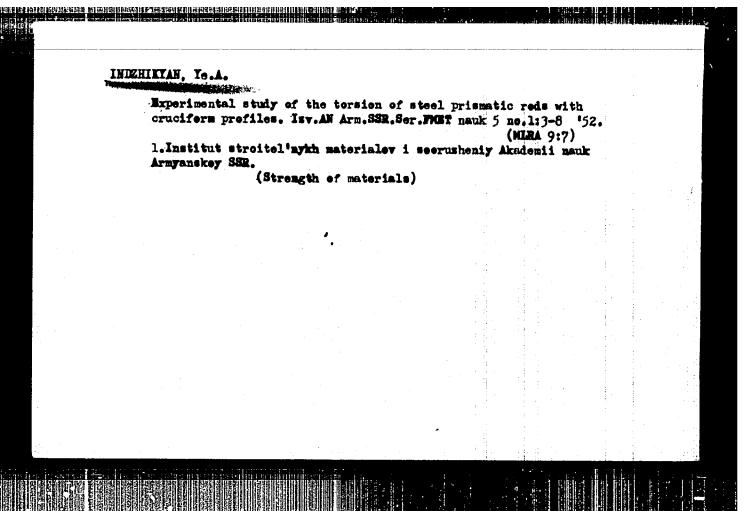
1. Institut organicheskov khimii AN Armyanskov SER. Bubmitted July 21, 1964.

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618610014-4" BABAYAN, A.T.; INDZHIKYAN, M.G.; GRIGORYAN, A.A.; MINASYAN, R.B.; OVAKIMYAN, M.Zh.

ita ka kun namana minasi dunasi kararang ka sa isinasi himakhini magini di ita isi isi isi isi isi isi isi isi

Amines and ammonium compounds. Part 26: Alkaline decomposition of 1,4-diammonium salts with a butyn-2-ylene central radical and side radicals of the allyl type. Izv. AN Arm. SSR. Khim. nauki 18 no.2:166-174 '65. (MIRA 18:11)

1. Institut organicheskoy khimii AN ArmSSR. Submitted April 24, 1964.



APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618610014-4"